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PATENT
Docket No. P1379



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SHIH-KWANG WU
TING-GUNG CHANG
CHIN-LU TSENG EXAMINER: UNKNOWN
LI-JUNG CHEN
KAE-SHYANG SHIH

SERIAL NO.: 10/016,569 ART UNIT: UNKNOWN

FILED: DECEMBER 7, 2001

TITLE: SOLID PHASE METHOD FOR SYNTHESIS PEPTIDE-SPACER-LIPID
CONJUGATES, CONJUGATES SYNTHESIZED THEREBY AND
TARGETED LIPOSOMES CONTAINING THE SAME

COMMISSIONER FOR PATENTS
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TRANSMITTAL LETTER

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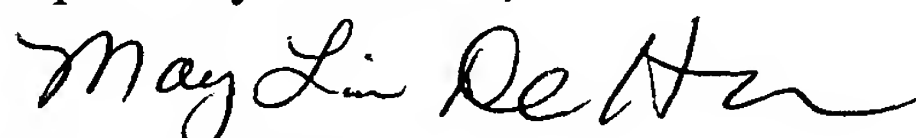
In connection with the above-referenced matter, transmitted herewith are the following:

1. Transmittal Letter (2 pages);
2. Information Disclosure Statement (2 pages);
3. Form PTO-1449 (2 pages);
4. US 5,969,099;
5. US 5,789,382;
6. EP0 620 008 A1;
7. WO 00/03245;
8. JP 60-109599;
9. WO 97/15593;
10. Maruyama et al., Biochim Biophys Acta. 1995, 1234, 74-80;
11. Allen T.M., Trends Pharmacol Sci. 1994, 15, 215-220;
12. Ahmad et al., Cancer Res. 1993, 53, 1484-8;
13. Suzuki et al., Biochim Biophys Acta., 1995, 1245, 9-16;

14. Eavarone et al., J Biomed Mater Res. 2000, 51, 10-4;
15. Gabizon et al., Bioconjug Chem. 1999, 10, 289-98;
16. Zalipsky et al., Bioconjug Chem. 1997, 8, 111-8;
17. Zalipsky et al., Bioconjug Chem. 1995, 6, 705-8;
18. Merrifield, J. Am. Chem. Soc. 85, 2149 (1963);
19. Kaiser et al., Anal. Biochem. 1970, 34, 595-8;
20. Zalipsky S., Bioconjugate Chem., (1995), 6, 150-165;
21. Blume et al. (Biochim. Biophys. Acta, (1993) ,1149, 180-184;
22. Zalipsky S., Bioconjugate Chem., 1993, 4, 269-299;
23. McArthur et al., Can. J Chem., 1982, 60, 1836;
24. Moon et al., Tetrahedron Lett., 1994, 35, 8915;
25. Englebrechtsen et al., Tetrahedron Lett., 1995, 36, 8871-8874;
26. Barker et al., J. Med. Chem. 1992, 35, 2040-2048;
27. Or et al., J. Org. Chem., 1991, 56, 3146-3149;
28. Szoka et al., Ann. Rev. Biophys. Bioeng., 1980, 9, 476;
29. Hope et al, Biochim. Biophys. Acta., 1985, 812m 55-65;
30. Mayhew et al, Biochim. Biophys. Acta., 1984, 775 169-174;
31. Lelkes, P.I. Liposome Technology, Gregoriadis, G., ed. 2nd ed., Vol. I, CRC Press, Boca Raton, Fla., 1992, pp. 49-65;
32. Mayer et al., Biochemistry, 1988, 27, 2053-2060;
33. Haran et al., Biochim. Biophys. Acta., 1993, 1151, 201-215;
34. Hug P. and Sleight R.G., Biochim. Biophys. Acta., 1991, 1097:1-17;
35. Nabel et al., Proc. Natl. Acad. Sci. U.S.A., 1993, 90, 11307-11311;
36. Gao, X. and Huang L., Biochemistry, 1996, 35, 1027-1036;
37. Whitmore et al., Gene Ther., 1999, 6, 1867-1875;
38. Wang, S., J. Am. Chem. Soc., 1973, 95, 1328;
39. Lu et al., J. Org. Chem., 1981, 46, 3433;
40. Barlos et al., Int. J. Peptide Protein Res., 1991, 37, 513;
41. Barlos et al., Int. J. Peptide Protein Res., 1991, 38, 562;
42. Rink, H., Tetrahedron Lett., 1987, 28, 3787;
43. Bernatowicz et al., Tetrahedron Lett., 1989, 30,4645.; and
44. Post Card in acknowledgement of receipt of all transmitted materials.

Please date-stamp the enclosed post card and return same to the undersigned in acknowledgment of receipt of all transmitted materials.

Respectfully submitted,



May Lin DeHaan
Reg. No. 42,472


MLD/pa
February 11, 2002
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KAE-SHYANG SHIH

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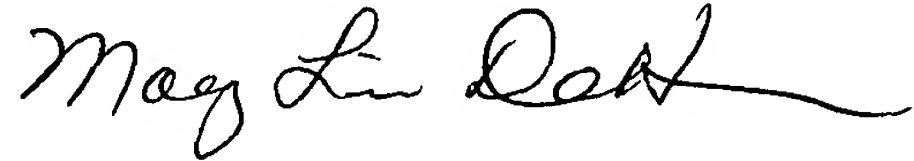
Applicant hereby makes available the references listed on the enclosed form PTO-1449, Information Disclosure Statement to assist the Patent and Trademark Office in its examination of this application.

The disclosure of the references does not constitute an admission that they are relevant

or material to the claims or are "prior art" to the subject application. No representation is made that better references do not exist.

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A handwritten signature in black ink, appearing to read "May Lin DeHaan", with a long horizontal flourish extending to the right.

May Lin DeHaan
Reg No. 42,472

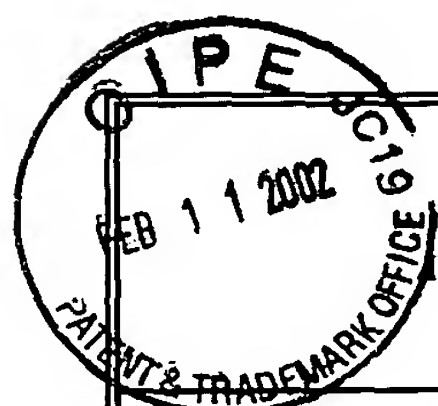
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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**
(Use several sheets if necessary)

Application Number	10/016,569
Filing Date	December 7, 2001
First Named Inventor	Shih-Kwang Wu
Attorney Docket No.	P1379

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US 5,969,099	Anderson et al.	October 19, 1999	
	2	US 5,789,382	Wellstein	August 4, 1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No.	Foreign Patent Document Office Number Code	Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appears
	1	EPO 620 008 A1	Gozes et al.	October 19, 1994	
	2	WO 00/03245	Chugai Pharmaceutical Co. Ltd.	January 20, 2000	
	3	JP 60-109599		June 15, 1985	
	4	WO 97/15593	Queen's University at Kingston	May 1, 1997	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	1	Maruyama et al., Biochim Biophys Acta. 1995, 1234, 74-80
	2	Allen T.M., Trends Pharmacol Sci. 1994, 15, 215-220
	3	Ahmad et al., Cancer Res. 1993, 53, 1484-8
	4	Suzuki et al., Biochim Biophys Acta., 1995, 1245, 9-16
	5	Eavarone et al., J Biomed Mater Res. 2000, 51, 10-4
	6	Gabizon et al., Bioconjug Chem. 1999, 10, 289-98
	7	Zalipsky et al., Bioconjug Chem. 1997, 8, 111-8
	8	Zalipsky et al., Bioconjug Chem. 1995, 6, 705-8

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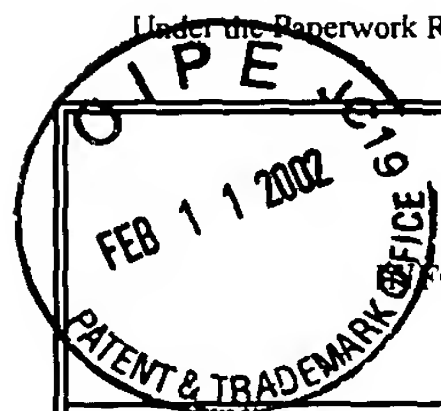
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

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**INFORMATION DISCLOSURE STATEMENT
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Application Number	10/016,569
Filing Date	12/7/2001
First Named Inventor	Shih-Kwang Wu
Attorney Docket No.	P1379

Sheet 2 of 2

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	9	Merrifield, J. Am. Chem. Soc. 85, 2149 (1963)
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	11	Zalipsky S., Bioconjugate Chem., (1995), 6, 150-165
	12	Blume et al., Biochim. Biophys. Acta, (1993), 1149, 180-184
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	20	Hope et al., Biochim. Biophys. Acta., 1985, 812, 55-65
	21	Mayhew et al., Biochim. Biophys. Acta., 1984, 775, 169-174
	22	Lelkes, P.I., Liposome Technology, 2 nd ed., Gregoriadis, G., ed. Vol. I, CRC Press, Boca Raton, Fla., 1992, pp. 49-65
	23	Mayer et al., Biochemistry, 1988, 27, 2053-2060
	24	Haran, et al., Biochim. Biophys. Acta., 1993, 1151, 201-215
	25	Hug P. and Sleight R.G., Biochim. Biophys. Acta., 1991, 1097:1-17
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	27	Gao, X. and Huang L., Biochemistry, 1996, 35, 1027-1036
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	31	Barlos et al., Int. J. Peptide Protein Res., 1991, 37, 513
	32	Barlos et al., Int. J. Peptide Protein Res., 1991, 38, 562
	33	Rink, H., Tetrahedron Lett., 1987, 28, 3787
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